

102.4 Copper Base Alloys (block and disk forms)

The SRMs with a "C" prefix are chill-cast blocks, 31mm square and 19mm thick; the others are wrought disks, 31mm in diameter and 19mm thick. Both forms have nearly identical elemental compositions.

Technical Contact: john.sieber@nist.gov

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

Elemental Composition (mass fraction, in %)

SRM	Description	Cu	Zn	Pb	Fe	Sn	Ni	Al	Sb	Be	Cd	Mn	P	Si	Ag	Co	Cr	Se	Mg
1104	Free-Cutting Brass	61.33	35.31	2.77	0.088	0.43	0.070						0.005						
1107	Naval Brass B	61.21	37.34	0.18	0.037	1.04	0.098												
1108	Naval Brass C	64.95	34.42	0.063	0.050	0.39	0.033						0.025						
1110	Red Brass B	84.59	15.20	0.033	0.033	0.051	0.053												
1111	Red Brass C	87.14	12.81	0.013	0.010	0.019	0.022												
C1112	Gilding Metal A	93.38	6.30	0.057	0.070	0.12	0.100						0.009						
1113	Gilding Metal B	95.03	4.80	0.026	0.043	0.064	0.057						0.008						
1114	Gilding Metal C	96.45	3.47	0.012	0.017	0.027	0.021						0.009						
1115	Commercial Bronze A	87.96	11.73	0.013	0.13	0.10	0.074						0.05						
1116	Commercial Bronze B	90.37	9.44	0.042	0.046	0.044	0.048						0.008						
1117	Commercial Bronze C	93.01	6.87	0.069	0.014	0.021	0.020						0.002						
C1122	Beryllium-Copper	97.45	(0.01)	(0.003)	0.16	(0.01)	(0.01)	0.17		1.75		(0.004)	(0.004)	0.17	(0.05)	0.220	(0.002)		
1276a	Cupro-Nickel (CDA 715)	67.8	0.038	0.004	0.56	0.023	30.5		0.0004		0.0002	1.01	0.006		0.045		0.005	0.12	

Values in parentheses are not certified and are given for information only.